

FIG. 1

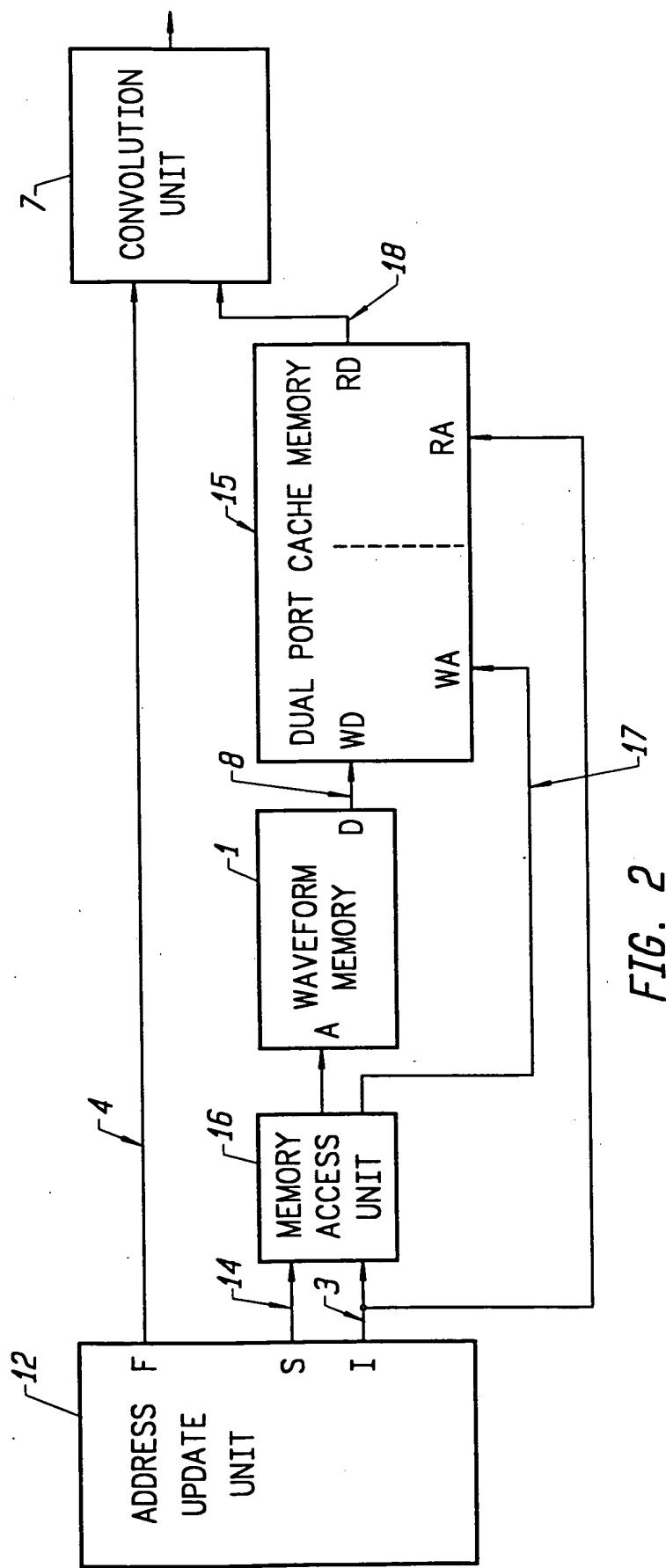


FIG. 2

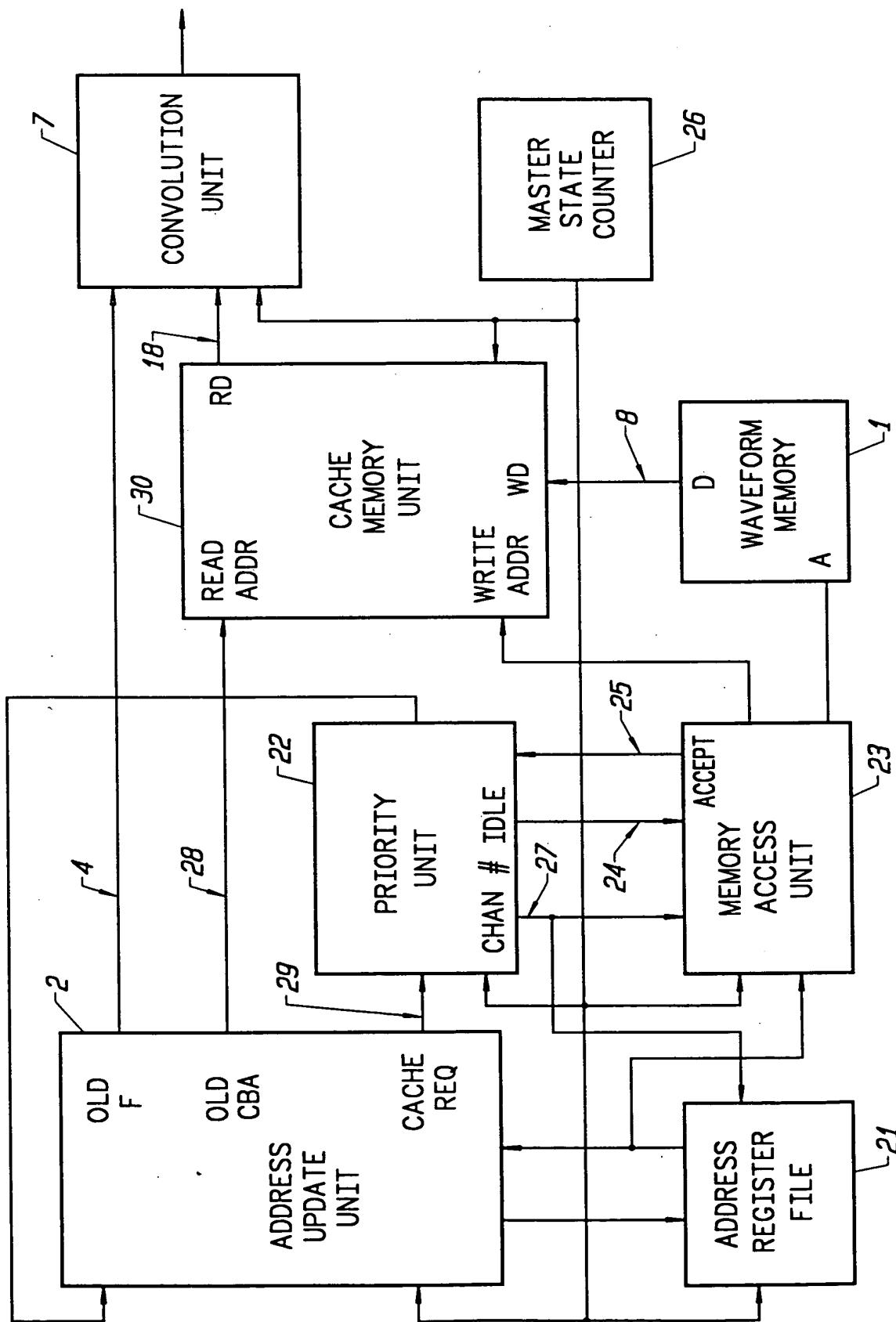
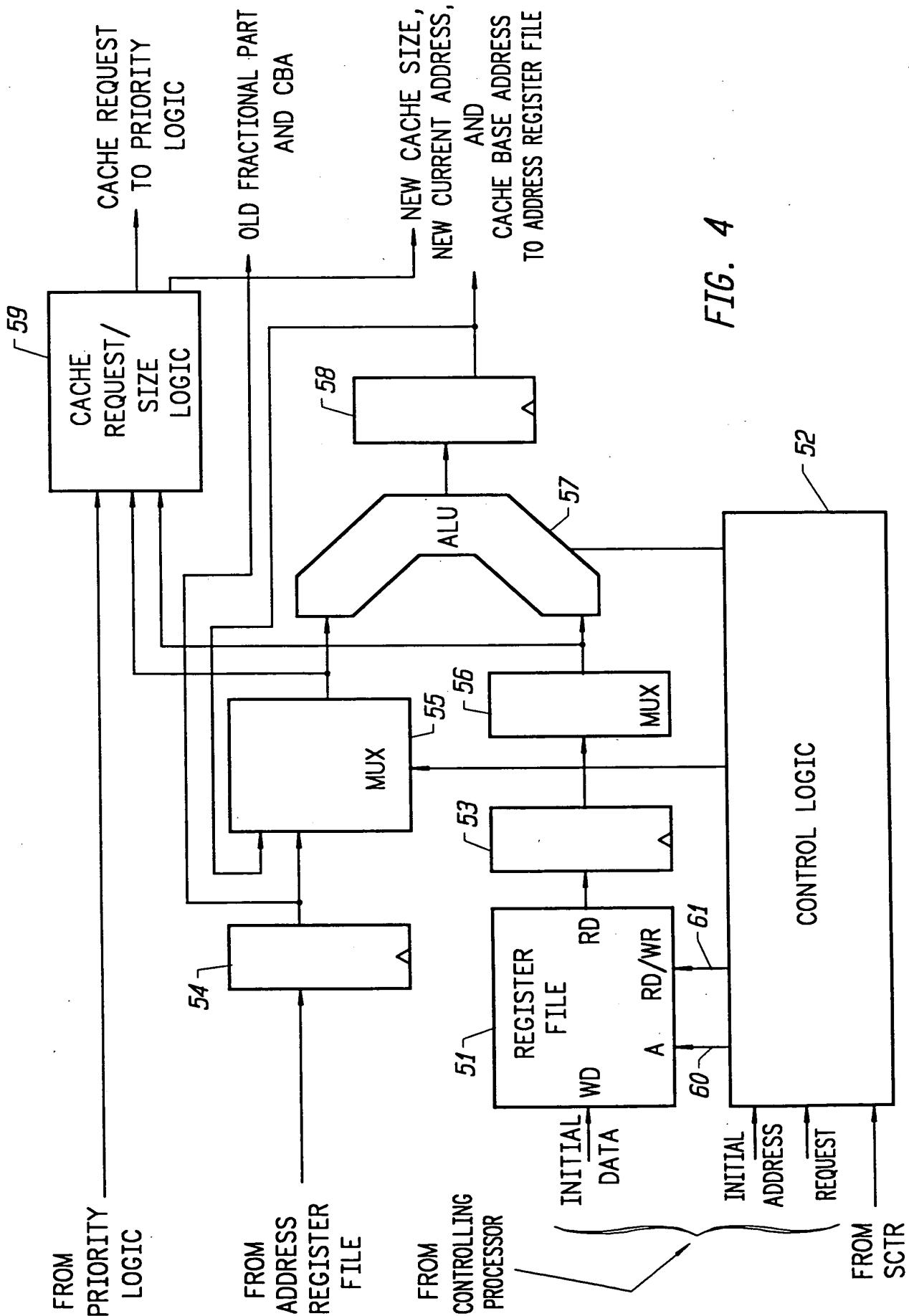


FIG. 3



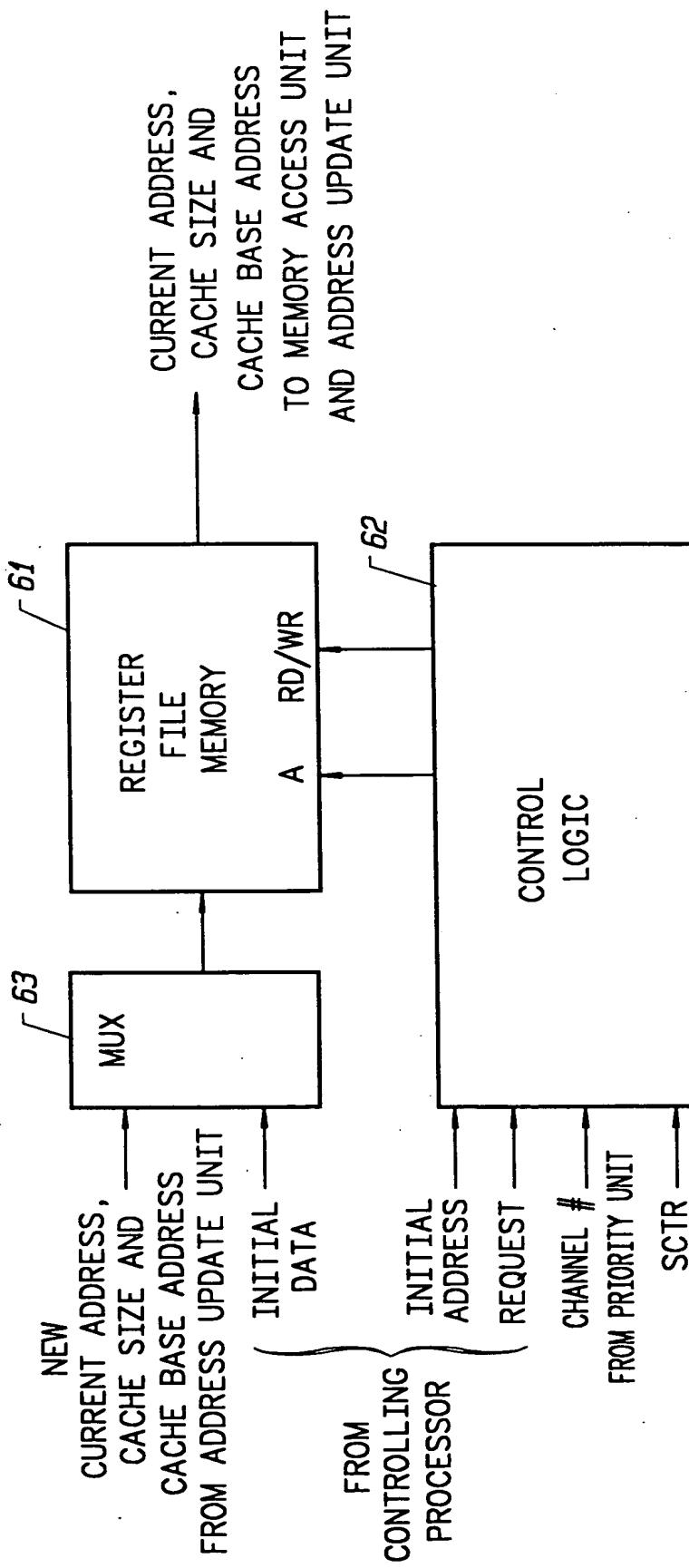


FIG. 5

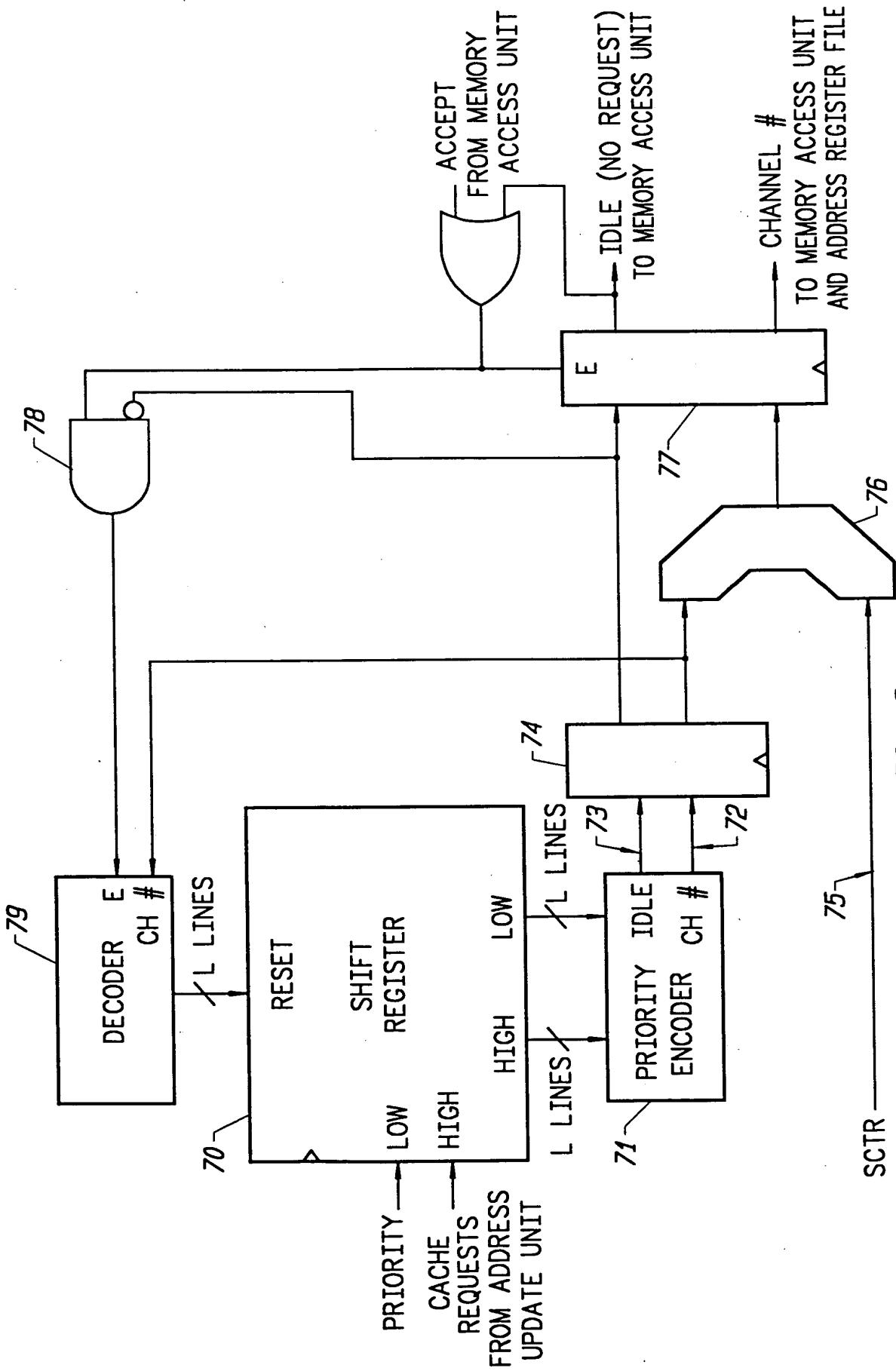


FIG. 6

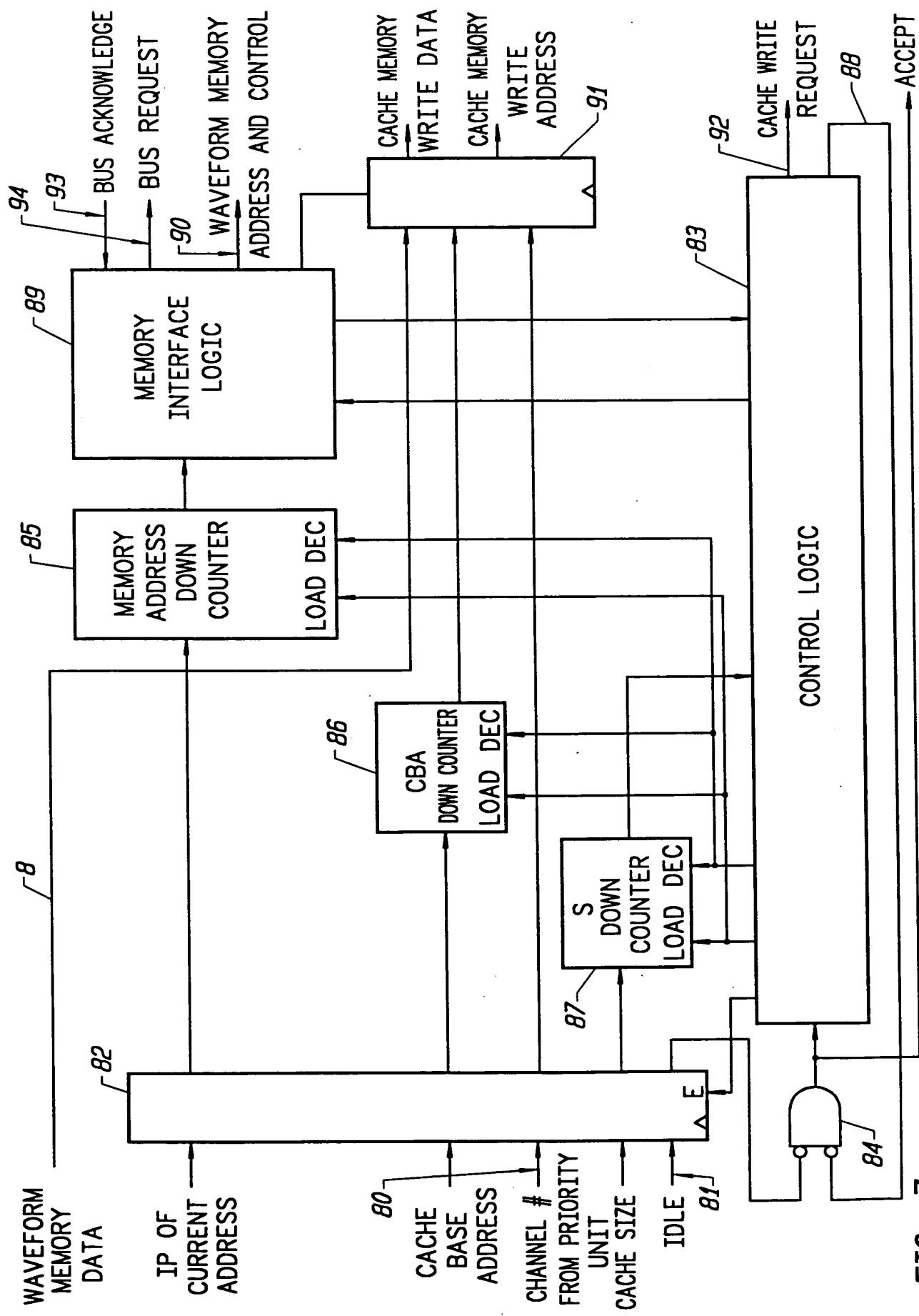


FIG. 7

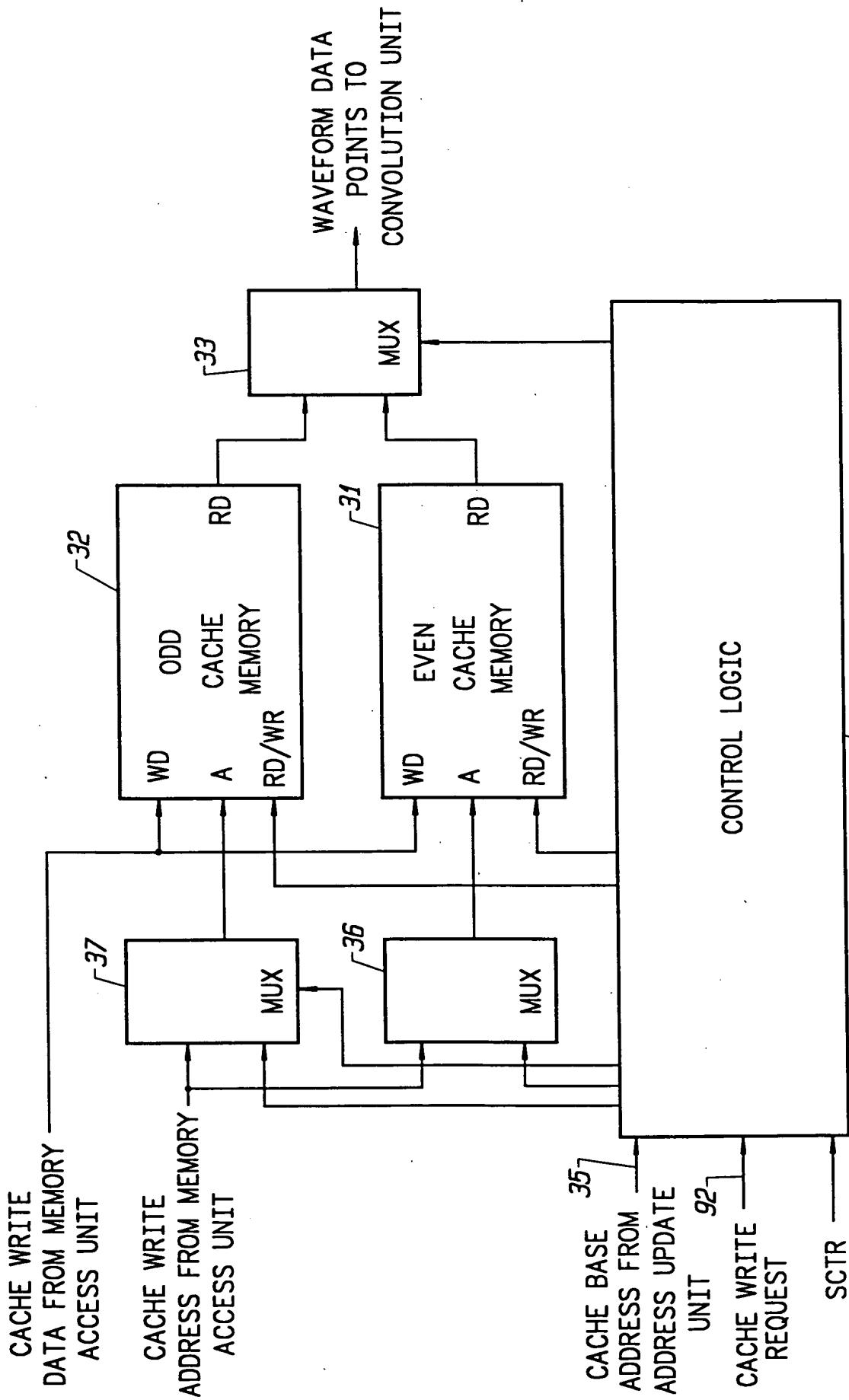
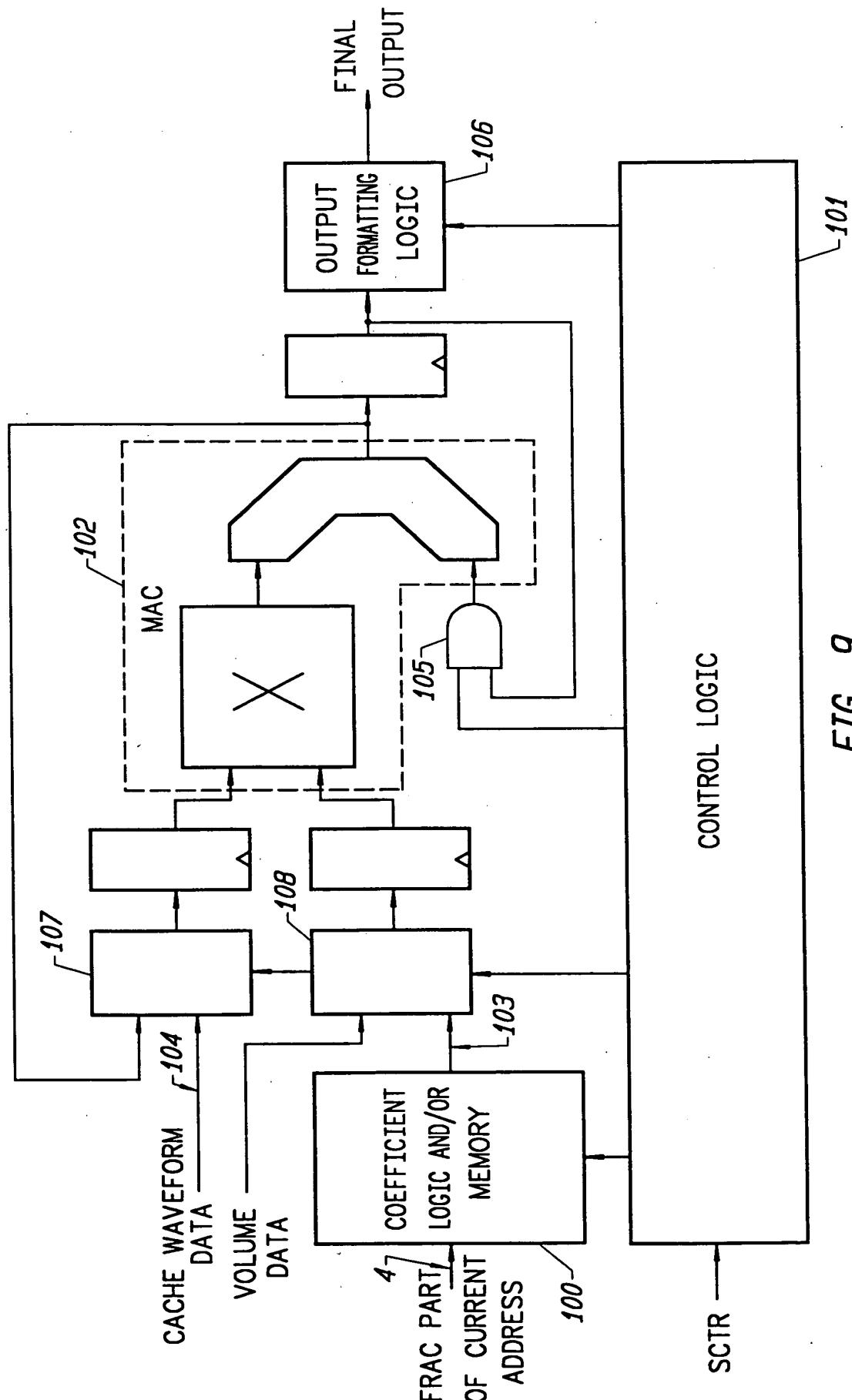


FIG. 8

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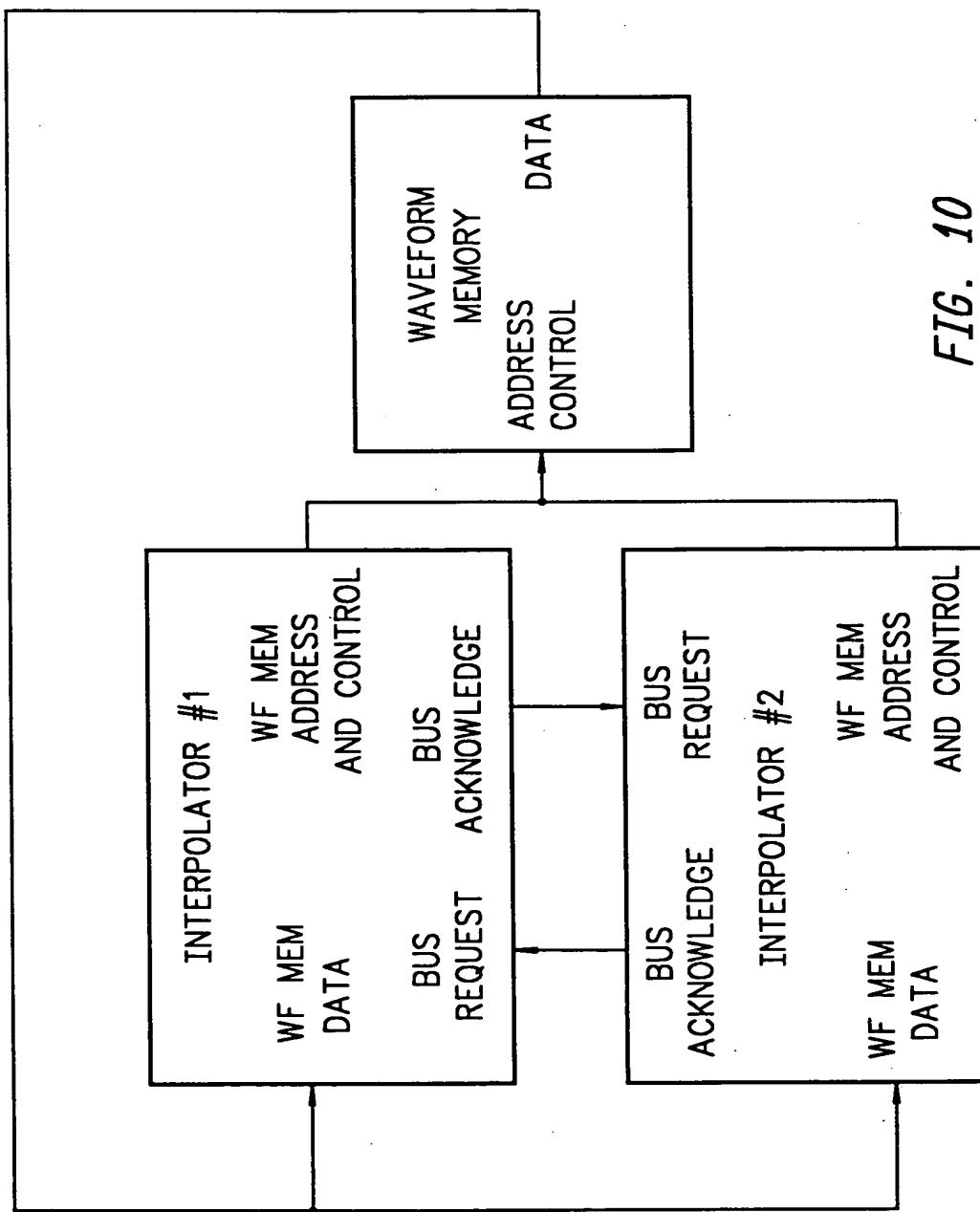


FIG. 10

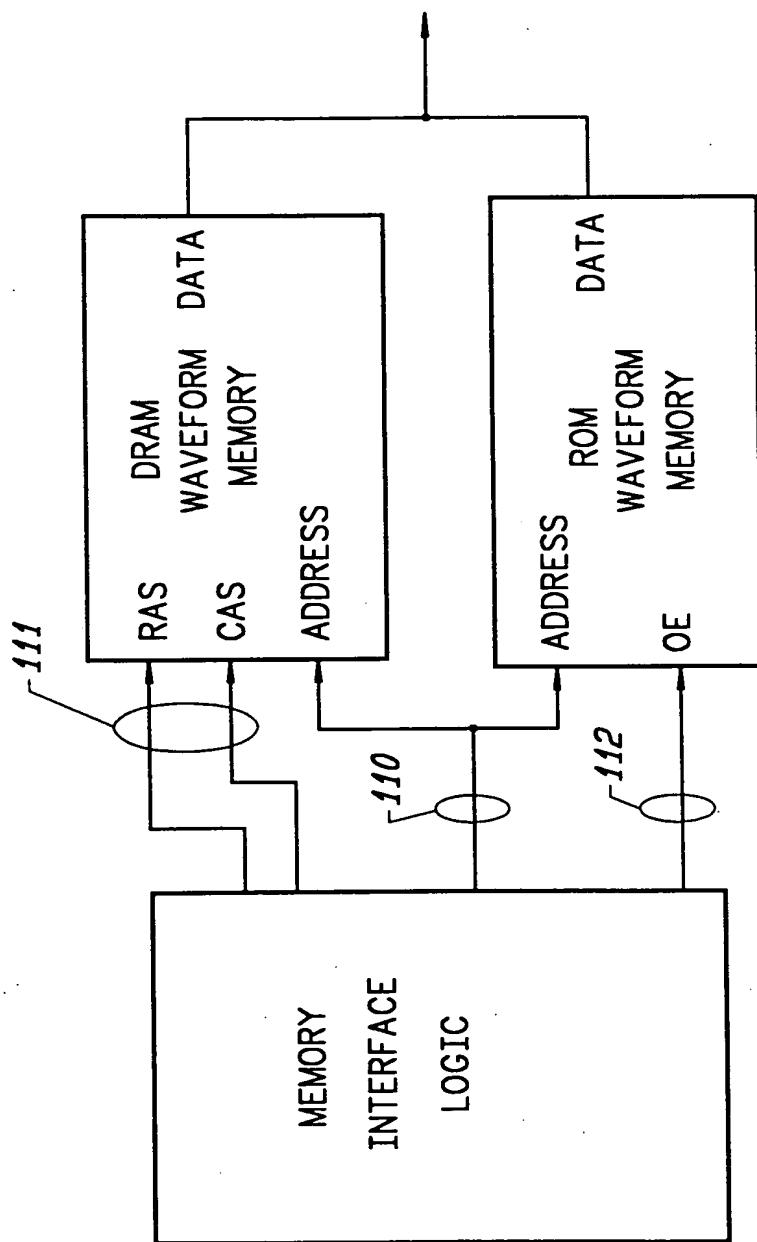


FIG. 11

STATE COUNTER (8 PER CHANNEL)	0	1	2	3	4	5	6	7	0(NEXT CHANNEL)
CBA ADDRESS	NEW VALID CACHE BASE ADDRESS								
CACHE RAW READ OPERATION	NOP	READ POINT 0	READ POINT 1	READ POINT 2	READ POINT 3	READ POINT 4	READ POINT 5	READ POINT 6	DON'T CARE
CR READ OPERATION CBA EVEN	NOP	READ EVEN POINT	READ ODD POINT	READ EVEN POINT	READ ODD POINT	READ EVEN POINT	READ ODD POINT	READ EVEN POINT	NOP
CR READ OPERATION CBA ODD	NOP	READ ODD POINT	READ EVEN POINT	READ ODD POINT	READ EVEN POINT	READ ODD POINT	READ EVEN POINT	READ ODD POINT	NOP
EVEN CR OPERATION CBA EVEN	AVAIL FOR WR	READ POINT 0	AVAIL FOR WR	READ POINT 2	AVAIL FOR WR	READ POINT 4	AVAIL FOR WR	READ POINT 6	AVAIL FOR WR
ODD CR OPERATION CBA EVEN	AVAIL FOR WR	AVAIL FOR WR	READ POINT 1	AVAIL FOR WR	READ POINT 3	AVAIL FOR WR	READ POINT 5	AVAIL FOR WR	AVAIL FOR WR
EVEN CR OPERATION CBA ODD	AVAIL FOR WR	AVAIL FOR WR	READ POINT 1	AVAIL FOR WR	READ POINT 3	AVAIL FOR WR	READ POINT 5	AVAIL FOR WR	AVAIL FOR WR
ODD CR OPERATION CBA ODD	AVAIL FOR WR	READ POINT 0	AVAIL FOR WR	READ POINT 2	AVAIL FOR WR	READ POINT 4	AVAIL FOR WR	READ POINT 6	AVAIL FOR WR
WAU EVEN WRITE CBA EVEN	WRITE	WAIT	WRITE	WAIT	WRITE	WAIT	WRITE	WAIT	WRITE
WAU ODD WRITE CBA EVEN	WRITE	WAIT	WRITE	WAIT	WRITE	WAIT	WRITE	WAIT	WRITE
WAU EVEN WRITE CBA ODD	WRITE	WAIT	WRITE	WAIT	WRITE	WAIT	WRITE	WAIT	WRITE
WAU ODD WRITE CBA ODD	WRITE	WAIT	WRITE	WAIT	WRITE	WAIT	WRITE	WAIT	WRITE

FIG. 12